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PLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.

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08/764,110 12/06/96 CHEN

EXAMINER

PETER C RICHARDSON PFIZER INC 235 EAST 42ND STREET NEW YORK NY 10017-5755

BERCH, M ART UNIT PAPER NUMBER

DATE MAILED:

1202

07/25/97

This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS

•	OFFICE ACTION SUMMARY	<b>Y</b>
☐ Responsive to comm	nunication(s) filed on	
☐ This action is FINAL	·	
Since this application accordance with the	n is in condition for allowance except for formal matters, <b>pro</b> practice under <i>Ex parte Quayle</i> , 1935 D.C. 11; 453 O.G. 21	osecution as to the merits is closed in
A shortened statutory pe whichever is longer, from the application to becom 1.136(a).	eriod for response to this action is set to expire	month(s), or thirty days, and within the period for response will cause be obtained under the provisions of 37 CFR
Disposition of Claims		
Claim(s)	1-17	is/are pending in the application
Of the above, clain	n(s) (4, 7, 1)	is/are withdrawn from consideration
Claim(s)		is/are allowed
Claim(s)	1-6, 8-10, 12 - 1	7 is/are rejected.
Application Papers		,
☐ See the attached N	Notice of Draftsperson's Patent Drawing Review, PTO-948.	
	d onis/are	
	wing correction, filed on	
	s objected to by the Examiner.	
_	ation is objected to by the Examiner.	
Priority under 35 U.S.C		
Acknowledgement is	made of a claim for foreign priority under 35 U.S.C. § 119	9(a)-(d)
	None of the CERTIFIED copies of the priority docume	
received.		
received in Appli	ication No. (Series Code/Serial Number)	
	national stage application from the International Bureau (PC	
*Certified copies not re	eceived:	
☐ Acknowledgement is	made of a claim for domestic priority under 35 U.S.C. § 1	19(e).
Attachment(s)		
Notice of Reference	ce Cited, PTO-892	
	sure Statement(s), PTO-1449, Paper No(s).	
☐ Interview Summary		
Notice of Draftsper	rson's Patent Drawing Review, PTO-948	
Notice of Informal	Patent Application, PTO-152	
	- SEE OFFICE ACTION ON THE FOLLOWIN	IG PAGES

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claim none, drawn to Pytrole pyrimidines, classified in class 540, subclass 280.
- II. Claim none, drawn to purines, classified in class 544, subclass 267,268, 269, 270, 271, 272, 273, 276, 277.
- III. Claim none, drawn to Imidazo pyriadines, classified in class 544,546, subclass 18.
- IV. Claims 6-7, 11, drawn to other, classified in class 544, 546, subclass various.

Claim 1-5, 8, 10, 12, 16, 17 link(s) inventions I-III and IV.

Claim 15 link(s) inventions I, II and III.

Claim 9, 12, 14 link(s) inventions I, III and IV.

The inventions are distinct, each from the other because:

The groups are destinct as seen by the diversity of the heterocyclic areas present. Group IV embraces assorted heterocycles such as triazolo pyrimidines, tetazolo pyrazines, cyclopenta pyndines, imideazopyrimidines, pyazalopyrazines, ct. Each dearly represents a separate invention as the heterocyclic ring systems

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cannot render each other obvious and can independently support separate utilities.

Because these inventions are distinct for the reasons given above and separate classification restriction for examination purposes as indicated is proper.

During a telephone conversation with Karen DeBenedictis on 7/7/97 a provisional election was made with traverse to prosecute the invention of I, claim 1-5, 8-10, 12-17. Affirmation of this election must be made by applicant in responding to this Office action. Claim 6, 7, 11 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).

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Claims 1-5, 8-10, and 12-17 are rejected as drawn to an improper Markush Group. These do not constitute art recognized equivalents. The claim embrace multiple inventions for reasons set forth above. Narrowing the claim to pyrrolopyrimidines will overcome this rejection.

The Abstract objected to. Definitions are needed for A, B, D, E, F, Z and R5.

Claims 1-5, 8-10, 12-14, 16, 17 are rejected under 35 U.S.C. § 112, paragraphs 1 and 2, as the claimed invention is not described in such full, clear, and exact terms as to enable any person skilled in the art to make and use the ame, and/or for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 1. The "wherein" phrase at page 49, lines 16-18 does not make sense.

  An alkyl group cannot contain multiple bonds of any type. Likewise provision at page 49, lines 19-26; page 50, line 18.
- 2. R2 benzyl in claim 2 is not provided for in claim 1. Note that the list  $c_1 + c_1 = c_1$  of substitutents on 9.92 alkyl (starting at page 49 line 30) does not include phenyl. Since the same claim 1 language appears in the specification as to

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which compounds have the utility, the R2 = benzyl compounds have no ascribed utility.

3. The material beginning at page 49 line 24 as no function and should be deleted (through "alkanoyl" on line 28).

The R2 list was closed by the "or" on line 20; the "aryl" definition finished at the end of line 23.

- 4. The inclusion of NRR on page 50, line 5 is clearly in error, since it cannot form a "cdrbo relic ring". It cannot be rescued by the NZ3 provision because a) this is labeled as "optional" and b) the N-of-attachment cannot be NZ3, as that would give 4 bonds to a remaindable NZ3, as that would give 4 bonds to a remaindable NZ3, which totals 4).
- 5. The term " throalkyl" at page 50, line 21 is ambiguous. It could C<sub>1-3</sub> SHC<sub>2</sub>H<sub>4</sub> C<sub>1-3</sub> C<sub>2</sub>H<sub>5</sub>S— mean a) mercapto Geo alkyl, e.g. SHEEH b) alkylthio, e.g. GH55— whichever choice is made must be supported by the specification what one skilled in the art would have understood it to be.
- 6. The "wherein ... bond" of page 51, lines 30-31 tands are contecedent basis in the 123 definition inc laim 1 (and lense is improperly dependent) or in the specification (and hence is anot enabled).

  Improperly dependent) or in the specification (and hence is

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7. The language of claims 16-17 is unclear and not enabled. The following issues arise:

- a. "such as" is improper alternative language (In re kingston, 65 USPQ 371)
- b. "including but not limited to .... CRF" is of unknown affect. How would be scope of the claim change if this language (or e.g. "including major depression") were removed?
- c. The scope of option (a) is unknown and cannot be determined without undue experimentation. To determine that any given disorder (e.g. MS, Type I diabetes) is a disorder which cannot be treated by antagmiasm of CRF would involve essentically open ended research as one tested hundreds of CRF antagonists trying to find out if there is a right one that works. Is there any disorder that applicant can state for certain is not embraced?
- d. Some "disorders" are not disorders at all. Pain perception and HIV infections are not disorders (AIDS is a disorder, not HIV infection).
  - e. What is "psychosocial dwarfism"?
- f. Why are both Alzheimer's Disease and SDAT both listed --- These are the same thing?

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g. In addition, applicants have many items which are simply broad catagories of only slightly related disorders, e.g. inflamatory disorder, mood disorders, cancer, neurodegonative disorders, GI diseases, chemical dependencies and addictions, infertility, ammune disfunctions, etc. No compound has even been found to be effective against these catogories generally - let alone all of them. Thus, there is no compound effective generally against cancer, and given the widely different causes for cancer, there is no reason to think such agent can be found. Similarly, causes vary tremendously for "infertility", and the notion that infertility (in both men and women) generally can be treated is contrary to what as known about infertility, even if some particular types of infertility can be treated. When effects in the past have furled and all effects to find a general treatment for e.g. neurodigenerative disorders or cancer have failed --- it is indeed proper to ask for supporting endence (In re Ferens, 163 USPQ 609). Collectively, the claim is simply in invitation to the public to figure out for them selves which of the hundreds of disorders listed in truly operable.

A scope so broad in effect forces the public to unduly experiment to determine the actual utility. CF In re Schmidt, 153 USPQ 640, which has a

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smaller disclosure than is seen here. <u>Note: Brenner v. Manson</u>, 148 USPQ 693:

"a patent is not a hunting license. It is not a reward for a search, but compensation for its successful completion." The utility here appears to resemble the circumstance in <u>In re Ziegler</u>, 26 USPQ 2d 1600: "... Ziegler was on the way to discovering a practical utility .... but had no gotten there." Cf also <u>In re Kirk</u>, 153 USPQ 48.

This is futher exacerbated by the enormous scope of Claim 1, which covers tallions of compounds.

Any inquiry concerning this communication should be directed to M. Berch at telephone number (703) 308-4718.

M.Berch/vgj July 23, 1997 MARK L BERCH PRIMARY EXAMINER GROUP 120 - ART UNIT 123